## EXHIBIT 19

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1
           IN THE UNITED STATES DISTRICT COURT
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           FOR THE EASTERN DISTRICT OF VIRGINIA
3
                  Alexandria Division
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    ROSY GIRON DE REYES,
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    et al.,
                    Plaintiffs, : Civil No.:
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                             : 1:16cv563-TSE-TCB
      V .
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    WAPLES MOBILE HOME PARK LIMITED :
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    PARTNERSHIP,
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    et al.,
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                    Defendants. :
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    ----X
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              Videoconference Deposition of
15
                WILLIAM A.V. CLARK, Ph.D.
16
                    McLean, Virginia
17
               Thursday, December 22, 2016
18
                       4:05 p.m.
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    Job No: 130604
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    Pages: 1 = 87
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    Reported by: Kelly Carnegie, CSR, RPR
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1 subject was an attempt to estimate the undocumented 2 population in a particular geographical area? 3 There may be other publications which have 4 certainly been involved with discussions of the 5 undocumented population. Your specific question 6 about whether I have estimated it for specific 7 areas, I don't believe that I have articles that 8 have done that. 9 Have you engaged in that type of analysis 10 as an expert witness on any occasion other than this 11 case? 12 I believe it was part of the Koreatown 13 study. We were concerned with people who were 14 documented or not, but I don't think that that 15 became an essential part of that case. 16 In the reports in this case, Professor 17 Clark, there's a term that's used called "margin of 18 error." Can you define that term for me. 19 When statisticians and demographers make 20 estimates using samples, they recognize that there 21 is some -- because it's not a count, there is some 22 error in the result, and we provide a range around

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1 national level, you have some smaller number at the 2 local level, and we've agreed that the margin of 3 error would be greater at the smaller area than at 4 the national. 5 In attempting to estimate the undocumented 6 population as we've defined it, are there particular 7 challenges to that type of estimate as opposed to 8 estimating another segment of the population? 9 I believe that's true. 10 What are the difficulties, if you will, in Q 11 estimating the undocumented population? 12 Well, because they're undocumented, some 13 of them prefer not to be measured in census 14 estimations. So getting an accurate count is more 15 difficult for a population that is less willing, 16 less wanting to be measured. 17 As a demographer, how do you deal with 18 that? 19 Well, there's a huge literature and it's 20 been discussed at length, and both Dr. Weinberg and 21 I reference some of the important people, Fasel, 22 Warren, Word, all these people, Peter Morrison, who

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1	have worked on this project of how to estimate the
2	undocumented population, and now the demographers at
3	The Center for Migration Studies have done a very
4	good job of coming up with pretty good estimates of
5	the national and local undocumented populations.
6	Q So The Center for Migration Studies has
7	estimated the undocumented population at the
8	national level for the United States, correct?
9	A Yes.
10	Q Is it also true that CMS, who is I'll
11	refer to them as The Center for Migration Studies
12	has acknowledged a nine percent margin of error with
13	respect to its estimate of the undocumented
14	population at the national level?
15	A That's correct.
16	Q Has CMS estimated the margin of error for
17	its estimates at smaller geographical areas such as
18	a state?
19	A They have not.
20	Q Do you know why they have not done that?
21	A I think the they say it's difficult
22	enough to try and get estimates of the undocumented

1	Q Is that what's been referred to in some of
2	the reports and I'll use the acronym PUMA,
3	P-U-M-A?
4	A Yes, public use microdata area.
5	Q So that's the smallest geographical area
6	that CMS will provide an estimate or has provided an
7	estimate for the undocumented population, correct?
8	A That is the smallest area to which they
9	have published estimates.
10	Q Okay. Are there any other entities that
11	have estimated the undocumented population at a
12	geographical area smaller than a PUMA?
13	A Not that I know of.
14	Q Do you know why that is?
15	A It's a very time consuming and tedious
16	activity, and I don't think the other two major
17	groups, The Pew Foundation and the I can't recall
18	the name the Migration Studies Institute
19	Q Yeah.
20	A have done that.
21	Q In the expert report that you provided in
22	this case, you adopted the margin of error that the

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American Community Survey attached to the estimate of the total number of Hispanics in the census tract at issue. Is that correct? That's correct. Do you know how ACS determined that margin 0 of error? Certainly when I was reviewing the Α document, I could have given you a much more specific answer. They used the procedures the ACS uses for all of its margins of error, and they pass that down to the local unit, and that's their best estimate of a range for that small population in a census tract. In this case I think it was 26 percent. All right. At what point does the margin of error cause you as a demographer to question the reliability of the estimate? Well, I think we have to be clear that the

A Well, I think we have to be clear that the issue and the importance is -- the point is not the margin of error. The margin of error gives us a guide as to what the range might be. But in the end, all statisticians and demographers are

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1	piece of information we have about Hispanics and	
2	that I used to apply to my undocumented estimate so	
3	that I could give you a range. In fact, I believe	
4	my point estimate is about correct.	
5	Q Well, the ACS 26 percent margin of error	
6	has nothing to do with the undocumented population,	
7	correct?	
8	A It does to the extent that undocuments	
9	are the undocumented are members of that Hispanic	
10	population.	
11	Q But the ACS doesn't differentiate, it	
12	simply has an estimate of the total Hispanic	
13	population, right?	
14	A That's correct.	
15	Q And that had a margin of error of 26	
16	percent, correct?	
17	A Correct.	
18	Q And you attempted to estimate a sub-group	
19	of undocumented Hispanics, correct?	
20	A Yes.	
21	Q Which is less certain, as you've already	
22	testified, correct?	

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1 Α Correct. 2 So shouldn't the margin of error go up? 3 If you had some basis to change it, you Α 4 could make that adjustment. That would increase the 5 number. 6 But I make two points in response to you: 7 We have another statistician who has also provided a 8 point estimate, without a range of error, I might 9 So we don't know what the range of error of 10 Dr. Weinberg's point is. But both point estimates 11 are within a relatively narrow range. Whether the 12 margin of error is actually 26 percent, we can only 13 rely on the fact that that's our best information at 14 this point. 15 Well, you would agree, Professor Clark, 16 that Mr. Weinberg believes that your estimate is 17 completely unreliable because of the margin of 18 error, correct? 19 He says that in his report. 20 So the issue isn't so much the point 0 21 estimate, but whether it's sufficiently reliable, 22 correct?

1	Migration Studies, but confirmed by the studies from
2	the Pew Research Center and from the Migration
3	Studies Institute.
4	Q But the CMS doesn't have any estimate of
5	the undocumented population at the tract level,
6	correct?
7	A That's correct.
8	Q So then you did not rely upon CMS data for
9	your ultimate conclusion in this case, right?
10	A No, that's not correct. I used the CMS
11	data from the PUMA to estimate what the undocumented
12	population is in the tract, that tract as part of
13	the PUMA.
14	Q What's the population size in the PUMA
15	that you relied upon?
16	A I don't have it in front of me, but it's a
17	large number.
18	Q Well over 100,000, correct?
19	A I believe so.
20	Q And the census Tract 4406, that population
21	is less than 4,000, correct?
22	A Yes.

1	A And whatever is in the response to Dr.
2	Weinberg, yes.
3	MR. DINGMAN: Why don't we take a short
4	break and let me reorganize. I think we can finish
5	up hopefully in the next 20, 30 minutes.
6	THE WITNESS: Okay.
7	MR. KIM: Sounds good.
8	(A brief recess was had from 5:34 p.m. to
9	5:42 p.m.)
10	MR. DINGMAN: Are we set to resume?
11	THE WITNESS: Yes.
12	MR. DINGMAN: Okay.
13	BY MR. DINGMAN:
14	Q Professor Clark, I'd like you to turn to
15	page 5 of your report. In the last paragraph before
16	the section with the heading Geography, in the first
17	sentence you state, "In sum, comparing the
18	undocumented population in Fairfax County and Census
19	Tract 4406 to other groups at the county and the
20	census tract level reveals a disparate impact at
21	both levels." What are the other groups at the
22	county that you refer to in that statement?

1	A Non-Hispanic populations.
2	Q And why do you say there's a disparate
3	impact at both levels?
4	A At both county and census tract levels.
5	Q So the other groups are just
6	non-Hispanics, or are they the non-Hispanic
7	undocumented population that you're referring to
8	here?
9	A Non-Hispanic populations.
10	Q So that statement has nothing to do with
11	whether they're documented or not?
12	A No. I misspoke. That's drawn from the
13	table before where in fact I produce an undocumented
14	ratio for the county in the tract of 30.7 and 31.4.
15	Q So I'm still trying to understand the
16	statement here. You said you compared the
17	undocumented population in Fairfax County to other
18	groups at the county. So who were the other groups
19	at the county? The documented population?
20	A No, the undocumented non-Hispanic
21	population.
22	Q Okay. And when you did this report, you

1	Q In his calculation, Dr. Weinberg took into
2	account the CMS margin of error at the national
3	level of nine percent, correct?
4	A And then he multiplied it up.
5	Q Right. But he took into account the nine
6	percent margin of error that CMS admits to with
7	respect to its national estimates, correct?
8	A Yes.
9	Q You ignored that, correct?
10	A I didn't ignore it. I said that this is
11	the best estimate we have. There is no margin of
12	error provided by CMS. He made a number of
13	assumptions about that for which I can find no
14	basis.
15	Q Well, isn't his assumption pretty
16	straightforward? He started at a national margin of
17	error and took that down to a census tract level?
18	A Not if you just multiplied up by some
19	number, which has no basis that I can find.
20	Q So you don't recall that his basis was
21	looking at the number of foreign-born nationals from
22	the census data?

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He uses that, but that's -- but there's no justification for it. And we're getting away from the point. You're focusing on margins of error, and I keep needing to remind you that we do have a point estimate here. That's the issue. There is an issue of what the margin of error should be, but the point estimate, which both Dr. Weinberg and I got, is a good estimate for the number of undocumented in the census tract. And that I think is the end of the discussion, really, because we've got a point estimate. Perhaps the margin of error should be larger, but the margin of error only gives us a sense of where the point estimate lies. Think of it again, as I said, as a bell curve. Multiple samples will produce most of the results near the point estimate. But in order to determine whether a point estimate is reliable, you have to consider the margin of error, correct? You can consider the margin of error. gives you a range in which the point estimate could

1	lie. We've already established the point estimate
2	of undocumented Hispanics in the census tract is not
3	zero, but that's what Dr. Weinberg is claiming.
4	Q What Dr
5	A So that makes his result nonsensical.
6	Q Isn't he demonstrating that the estimate
7	has no reliability with his margin of error?
8	A No, no. He's demonstrating that you could
9	get a point estimate of zero under his discussion.
10	That's not possible.
11	Q Let me ask you this question.
12	A The margin of error
13	Q Go ahead.
14	A The margin of error includes all point
15	estimates.
16	Q As a demographer, can you accept an
17	estimate as reliable without knowing the margin of
18	error associated with the estimate?
19	A You can accept the point estimate. There
20	is a margin of error around it. You may not know
21	exactly what the margin of error is. You can still
22	accept the point estimate. We accept them all the

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1	time. Demographers accept estimates of income, of
2	the proportion of women with levels of fertility.
3	We accept point estimates all the time, both
4	professionally and in the lay public. We don't
5	always have point we don't in fact, we often
6	do not have margins of error, but we accept them.
7	Q Why does the Census Bureau attach a margin
8	of error to all of its estimates if it's unnecessary
9	to determine the reliability of the estimate?
10	A I didn't say that. The Census Bureau in
11	its great care with lots of mathematical
12	statisticians is concerned to give a range around
13	which their point estimates lie. They want people
14	to be aware that the estimate is somewhere in this
15	range.
16	Q Isn't it true the Census Bureau also wants
17	individuals to be aware that the estimate may not be
18	reliable?
19	A I'm not sure that's a correct statement
20	about the Census Bureau, but we have to see what
21	their documentation says on that.
22	Q Based on your experience, do you
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1 understand that that's the reason they provide a 2 margin of error, to allow others to assess the 3 reliability of their estimates? 4 That's one of the reasons they do it, and 5 I've used what I believe is a reliable piece of 6 their margins of error, that is, the margin of error 7 for the census tract, which is quite large, 26 8 percent, for my margin of error for the undocumented 9 population. If we're talking only about the 10 Hispanic population, that margin of error is in ACS. 11 The only question is whether it applies to make an 12 estimate of the undocumented population. I believe 13 it does give us the best estimate. 14 But in coming to your conclusions, you 0 15 relied upon the CMS data at the PUMA level, correct? 16 To estimate the number of undocumenteds in 17 that tract, I deduced it from the PUMA. 18 But recall again that the other data at 19 the county level is confirmatory of my result at the 20 local level. The fact that I'm getting something 21 similar gives me a great deal of confidence in that 22 value. If the value of the census tract level was

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wildly different from the county level, I would be concerned about my point estimate, but I'm not. In relying upon the PUMA CMS estimate, you 0 do not know what the margin of error is for that estimate, correct? I think that question has been asked at least twice before, and I've answered. We don't know the margin of error for the CMS data. CMS did

How can you as a demographer determine whether their estimate is reliable or not?

not provide margins of error at the PUMA level.

They have gone through a complicated process of taking the national data, positing it out to state and to local areas. This is, as mine, the best estimate of the number of undocumented. is a large team of demographers and statisticians produced this data. It is publicly available now online. I believe it is as reliable data as we can get about the undocumented population.

Whether it's the most reliable or not, how can you determine whether it's sufficiently reliable to establish, for instance, in this case as a fact